

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

ATTY. DOCKET  
NO. 6321-157

SERIAL NO.  
09/489,640

APPLICANT James W. Klett et al.

FILING DATE  
January 24, 2000

GROUP

U. S. PATENT DOCUMENTS

*Exam Initial		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	Filing Date
SLD	AA	3	5	5	8	2	7	6	01/26/71	S. Otani et al.	23	209.1	
SLA	AB	3	9	1	4	3	9	2	10/21/75	R. Klett	264	29	
SLD	AC	3	9	7	9	1	9	6	09/07/76	B. Frank et al.	65	25	
	AD	4	0	2	5	6	8	9	05/24/77	K. Kobayashi et al.	428	402	
	AE	4	0	9	6	0	9	7	06/20/78	T.Y. Yan	252	510	
	AF	4	1	2	5	6	7	6	11/14/78	D. Maricle et al.	429	38	
	AG	4	2	2	5	4	6	3	09/30/80	K. Unger et al.	252	445	
	AH	4	2	7	2	3	5	6	06/09/81	A.H. Stiller et al.	208	8LE	
	AI	4	3	0	3	4	3	1	12/01/81	L. Torobin	65	21.4	
	AJ	4	3	1	1	6	8	2	01/19/82	T. Miyazaki et al.	423	448	
	AK	4	3	1	8	8	2	4	03/09/82	A. Turner	252	421	
	AL	4	4	3	9	3	4	9	03/27/84	D. Everett et al.	502	180	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
													YES	NO
	AM													
	AN													
	AO													
	AP													
	AQ													

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	AR		
	AS		
	AT		

Examiner: *W. H. Jones*

Date Considered

9/29/03

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SW	BA	4	4	4	2	1	6	5	04/10/84	J. Gebhardt et al.	428	307.7	
	BB	4	4	8	7	6	8	7	12/11/84	T. Simo et al.	208	56	
	BC	4	5	1	8	4	8	3	05/21/85	G. Dickakian	208	44	
	BD	4	5	2	5	4	9	2	06/25/85	M. Rastall et al.	521	181	
	BE	4	5	5	0	0	1	5	10/29/85	L. Korb et al.	423	445	
SW	BF	R	E	3	2	3	1	9	12/30/86	L. Korb et al.	423	445	
	BG	4	6	3	7	9	0	6	01/20/87	N. Fukuda et al.	264	29.1	
	BH	4	6	5	9	6	2	4	04/21/87	R. Yeager et al.	428	408	
	BI	4	7	7	5	6	5	5	10/04/88	C. Edwards et al.	502	416	
	BJ	4	7	8	2	5	8	6	11/08/88	L. Joo et al.	29	623.5	
	BK	4	8	3	2	8	8	1	05/23/89	C. Arnold, Jr. et al.	264	29.7	
	BL	4	8	7	3	0	7	1	10/10/89	Y. Yamada et al.	423	448	
	BM	4	8	7	3	2	1	8	10/10/89	R. Pekala	502	418	

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													YES	NO
	BN													
	BO													
	BP													
	BQ													
	BR													

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

SW	BS		Edie, D.D., "Pitch and Mesophase Fibers", pp. 1-30 (1990) (from <i>Carbon Fibers and Filaments</i> , J.L. Figueiredo, Ed., Kluwer Academic Publishers)
	BT		
	BU		

Examiner: *Whitson* Date Considered *9/24/03*

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SW	CA	4	8	9	2	7	8	3	01/09/90	J. Brazel	428	282	
	CB	4	9	1	7	8	3	5	04/17/90	A. Lear et al.	264	29.1	
	CC	4	9	3	4	6	5	7	06/19/90	G. Dodson	251	214	
	CD	4	9	7	8	6	4	9	12/18/90	V. Surovikin et al.	502	416	
	CE	4	9	9	2	2	5	4	02/12/91	F. Kong	423	449	
	CF	4	9	9	9	3	8	5	03/12/91	F. McCullough, Jr. et al.	521	149	
	CG	5	0	1	9	1	6	4	05/28/91	H. Tomita et al.	106	22	
	CH	5	0	4	7	2	2	5	09/10/91	F. Kong	423	447.2	
	CI	5	0	5	3	1	4	8	10/01/91	W. von Bonin	252	8.05	
	CJ	5	0	7	1	6	3	1	12/10/91	M. Takabatake	423	445	
	CK	5	0	7	6	8	4	5	12/31/91	I. Seo et al.	106	284.4	
	CL	5	1	1	4	6	3	5	05/19/92	Y. Sohda et al.	264	29.2	
	CM	5	2	1	7	7	0	1	06/08/93	K. Sakata et al.	423	447.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
	CN												YES	NO
	CO													

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

SW	CP	Hexcel Product Data Sheet 2100 AND 1300 both dated September 1995.
	CQ	Kearns, K., Graphitic Carbon Foam Processing, 21 <sup>st</sup> Annual Conference on Composites, Materials, and Structures, January 26-31, 1997, Cocoa Beach, FL, pp. 835-847 (1997).
	CR	Lake, M.L., "Simple Process Produces High Modulus Carbon Fibers at Much Lower Cost," <u>Mat. Tech.</u> 11(4): 137-139 (1996).
	CS	Jones, S.P., Fain, C.C. and Edie, D.D., "Structural Development in Mosephase Pitch Based Carbon Fibers Produced from Naphthalene," 35(10-11): 1533-1543 (1997).
	CT	Amoco Product Literature (1997).
	CU	Steiner, K.V. et al., "Production and Properties of Ultra-Lightweight Aluminum Foams for Industrial Applications," Proceeding from the 4 <sup>th</sup> International Conference on Composites Engineering, Edited by David Hui, pp. 943-944 (1997).
	CV	Inoue, K., "Application of Laser Flash Method To Penetrative Materials for Measurement of Thermal Diffusivity," <u>High Temp. Tech.</u> 8(1): 21-26 (1990).

Examiner: *Wendy Klett*

Date Considered

9/29/93

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SUA	DA	5	2	3	2	7	7	2	08/03/93	F. Kong	428	312.2	
	DB	5	2	4	8	7	0	5	09/28/93	H. McGuigan et al.	521	149	
	DC	5	3	0	0	2	7	2	04/05/94	R. Simandl et al.	423	445R	
	DD	5	3	8	4	1	9	3	01/24/95	K. Suh et al.	428	375	
	DE	5	4	3	7	9	2	7	08/01/95	R. Ross et al.	428	367	
	DF	5	4	8	7	9	4	6	01/30/96	V. McGinniss et al.	428	413	
	DG	5	5	4	0	9	0	3	07/30/96	H. Romine	423	445R	
	DH	5	5	5	6	8	9	2	09/17/96	R. Pekala	521	181	
	DI	5	5	7	8	2	5	5	11/26/96	K. Okuyama et al.	264	29.5	
	DJ	5	5	8	0	5	0	0	12/03/96	K. Muramatsu et al.	264	29.1	
	DK	5	5	8	2	7	8	1	12/10/96	T. Hayward	264	28	
	DL	5	6	1	4	1	3	4	03/25/97	Y. Sohda et al.	264	29.1	
	DM	5	6	9	5	8	1	6	12/09/97	N. Iwashita et al.	427	228	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
	DN												YES	NO
	DO													
	DP													
	DQ													

**OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)**

SUA	DR	Ohlhorst, C.W. et al., "Thermal Conductivity Database of Various Structural Carbon-Carbon Composite Materials," NASA Technical Memorandum 4787 (11/97).
	DS	Mehta, R. et al., "Graphitic Carbon Foams: Processing and Characterization," 21 <sup>st</sup> Biennial Conference on Carbon, Conf. Proceedings, American Carbon Society, Buffalo, New York, pp. 104-105 (1993).
	DT	Cowan, R.D., "Pulse Method of Measuring Thermal Diffusivity at High Temperatures," J. of App. Phys., 34(4), pp. 926-927 (1962).

 Examiner: *Ben H. Klett*

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9/29/93

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SUD	EA	5	7	0	5	1	0	6	01/06/98	S. Kolesnikov et al.	264	29.1	
	EB	5	7	0	9	9	1	4	01/20/98	C. Hayes	428	35.1	
	EC	5	7	3	3	4	8	4	03/31/98	D. Uchida et al.	264	29.1	
	ED	5	7	7	0	1	2	7	06/23/98	F. Abrams et al.	264	29.1	
	EE	5	8	8	8	4	6	9	03/30/99	A.H. Stiller et al.	423	445R	
	EF												
	EG												
	EH												
	EI												
	EJ												
	EK												

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	EL												YES	NO
	EM													
	EN													
	EO													
	EP													

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	ER													
	ES													
	ET													

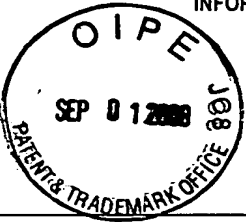
Examiner:

*W. J. Klett*

Date Considered

9/29/98

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<b>U. S. PATENT DOCUMENTS</b>														
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SLA	FA	2	4	0	1	7	9	7	12/27/43	Rasmussen	210	150.5		
SLA	FB	3	3	0	6	3	5	3	12/23/64	Burne	165	164		
SLA	FC	3	4	5	3	8	0	9	05/27/68	Henderson	55	269		
SLA	FD	3	7	8	4	4	8	7	01/08/74	Franck et al.	260	2.5F		
SLA	FE	3	9	7	3	7	1	8	08/10/76	Deschamps	228	183		
SLA	FF	4	0	0	5	1	8	3	01/25/77	Singer	423	447.2		
SLA	FG	4	0	0	7	3	2	4	02/08/77	Wallouch	13	18		
SLA	FH	4	5	1	2	3	8	8	04/23/85	Claar et al.	165	1		
SLA	FI	4	5	7	2	8	6	4	02/25/86	Benson et al.	428	305.5		
SLA	FJ	5	1	3	8	8	3	2	08/18/92	Pande	60	203.1		
	FK													
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
													YES	NO
SLA	FL	2	4	1	1	8	1	1	7/79	France	—	—		X
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)</b>														
SLA	FM	Introduction to Carbon Science, ed. Harry Marsh, Butterworths and Co., Ltd., London, pp. 6-16, 39-44, 47-49, 51-52, 55-58, 61 and 109 (1989). <i>no match</i>												
SLA	FN	Brooks, J.D. and Taylor, G.H. "The Formation of Graphitizing Carbons from the Liquid Phase," <u>Carbon</u> , 3(2), pp. 185-193 (1965). <i>no match</i>												
SLA	FO	Rouzaud, J.N. and Oberlin, A., "Structure, Microtexture, and Optical Properties of Anthracene and Saccharose-Based Carbons," <u>Carbon</u> , 27(4), pp. 517-529 (1989). <i>no match</i>												
SLA	FP	Rand, B., "Matrix Precursors for Carbon-Carbon Composites," in <u>Essentials of Carbon-Carbon Composites</u> , edited by C.R. Thomas, Royal Society of Chemistry, London pp. 67-102 (1993). <i>no match</i>												
SLA	FQ	Kelly, B.T., "The Thermal Conductivity of Graphite," <u>Physics and Chemistry of Carbon</u> , 5, pp. 119-215 (1969). <i>no match</i>												
SLA	FR	Adams, P.M., Katzman, H.A., Rellick, G.S., and Stupian, G.W. "Characterization of High Thermal Conductivity Carbon Fibers and a Self-Reinforced Graphite Panel," Aerospace Report No. TR-98-(8565)-11, Contract No. FO4701-93-C-0094, September 1, 1998.												
SLA	FS	Ultramet Product Literature, 1998 (for Ultrafoamc) <i>no match</i>												
SLA	FT	Japan Patent Publication No. 04163319, published June 8, 1992 (one page English abstract from European Patent Office). <i>June August 1992</i>												
SLA	FU	Klett, J. and Edie, D., "Flexible Towpreg for the Fabrication of High Thermal Conductivity Carbon/Carbon Composites," URL: <a href="http://www.ms.ornl.gov/cimtech/cfcmstowpreg.html">http://www.ms.ornl.gov/cimtech/cfcmstowpreg.html</a> . Last updated 4/14/96.												
Examiner: <i>Neerickson</i> Date Considered: <i>11/8/02</i>														
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SW	GA	4	2	7	6	2	4	6	06/30/81	A. Bonzom et al.	264	53	
	GB												
	GC												
	GD												
	GE												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
													YES	NO
SW	GF	WO	98	2	7	0	2	3	06/25/98	PCT				

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)


SW	GG	XP-002080696 - PATENT ABSTRACTS OF JAPAN, vol. 014, No. 386 (C-0750), August 21, 1990 and JP 02 142891 A (KAWASAKI STEEL CORP.), May 31, 1990											
	GH	Shih, Wei, "Development of Carbon-Carbon Composites for Electronic Thermal Management Applications," IDA Workshop, May 3, 1994, pages III-119 - III-136.											
	GI	Engle, G.B., A.R. Phillips Laboratory Contract Number F29601-93-C-0165; "High Thermal Conductivity C/C Composites for Thermal Management," IDA Workshop, May 3-5, 1994, pages III-137 - III-148.											
	GP	Hager, Joseph W. and Lake, Max L., "Novel Hybrid Composites Based on Carbon Foams," Mat. Res. Soc. Symp., Materials Research Society, 270:29-34 (1992).											
	GJ	Sandhu, S.S. and Hager, J.W., "Formulation of a Mathematical Process Model for the Foaming of a Mesophase Carbon Precursor," Mat. Res. Soc. Symp., Materials Research Society, 270:35-40 (1992).											
	GK	Gibson, L.J. and Ashby, M.F., "Cellular Solids: Structure & Properties," pages 1-277, Pergamon Press, New York (1988).											
	GL	Gibson, L.J., "Modelling the Mechanical Behavior of Cellular Materials," Mat. Sci. and Eng. A110, pages 1-36 (1989).											
	GM	Knippenberg, W.F. and Lersmacher, B., "Carbon Foam," Phillips Tech. Rev. 36, pages 93-103 (1976), No. 4.											
	GN	White, J.L. and Sheaffer, P.M., "Pitch-Based Processing of Carbon-Carbon Composites," Carbon, 27: pages 697-707 (1989).											
	GO	Hager, Joseph W., "Idealized Strut Geometries for Open-Celled Foams," Mat. Res. Soc. Symp., Materials Research Society, 270:41-46 (1992).											
	GP	Aubert, J.H., MRS Symposium Proceedings, "Microcellular Foams Prepared from Demixed Polymer Solutions," 207:117-127 (1991).											
	GQ	Cowlard, F.C. and Lewis, J.C., "Vitrous Carbon - A New Form of Carbon," J. of Mat. Sci. 2:507-512 (1967).											
	GR	Noda, T., Inagaki, M. and Yamada, S. "Glass-Like Carbons," J. of Non-Crystalline Solids, 1:285-302 (1969).											
	GS	Davies, G.J. and Zhen, Shu "Review: Metallic Foams: Their Production, Properties and Applications," J. of Mat. Sci. 18: pages 1899-1911 (1983).											

Examiner: *pt. 1/2/03*


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SWD	HA	5	8	6	8	9	7	4	02/09/99	Kearns	264	29.6		
	HB	5	8	8	2	6	2	1	03/16/99	Doddapaneni et al.	423	445 R		
	HC	5	9	0	2	5	6	2	05/11/99	Lagasse et al.	423	445 R		
	HD	5	9	4	5	0	8	4	08/31/99	Droege	423	447.4		
	HE	5	9	5	4	9	3	7	09/21/99	Farmer	205	687		
	HF	6	0	1	3	3	7	1	01/11/00	Hager et al.	428	408		
	HG	6	0	3	3	5	0	6	03/07/00	Klett	156	78		
	HH	6	0	3	7	0	3	2	03/14/00	Klett et al.	427	71		
	HI													
	HJ													
	HK													
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	HL												YES	NO
	HM													
	HN													
	HO													
	HP													
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)</b>														
SWD	HR	Klett, James: "High Thermal Conductivity, Mesophase Pitch-Derived Carbon Foam," Proceedings of the 1998 43 <sup>rd</sup> Int'l SAMPE Symposium and Exhibition. Part 1 (of 2) Anaheim, CA, USA, May 31-June 4, 1998, vol. 43, no. 1, 1998, pages 745-755.												
SWD	HS	Anderson, Heather J. et al.: "Microcellular Pitch-Based Carbon Foams Blown With Helium Gas," Proceedings of the 1998 43 <sup>rd</sup> International SAMPE Symposium and Exhibition, Part 1 (of 2); Anaheim, CA, USA, May 31-June 4, 1998, vol. 43, no. 1, 1998, pages 756-762.												
	HT													
Examiner: <u>Jenshikon</u> Date Considered: <u>01/24/03</u>														
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SW	IA	6	0	7	7	4	6	4	06/20/00	Murdie et al.				
↓	IB	5	8	8	8	4	3	0	03/30/99	Wakayama et al.				
↓	IC	4	2	0	5	0	5	5	05/27/80	Maire et al.				
	ID													
	IE													
	IF													
	IG													
	IH													
	II													
	IJ													
	IK													
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							PUBLICA- TION DATE	COUNTRY	CLASS	SUB CLASS	TRANS.	
													YES	NO
SW	IL	WO	99	1	1	5	8	5	03/11/99	PCT				
↓	IM	WO	99	6	4	2	2	3	12/16/99	PCT				
↓	IN	WO	99	1	1	5	8	6	03/11/99	PCT				
	IO													
	IP													
<b>OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)</b>														
SW	IQ	Klett, J.W. and Edie, D.D., "Flexible Towpreg for the Fabrication of High Thermal Conductivity Carbon/Carbon Composites," <u>Carbon</u> , 33:10, pp. 1485-1503.												
↓	IR	Klett, J.W. and Burchell, T.D., "High Thermal Conductivity, Mesophase Pitch Derived Carbon Foam," <u>Science and Technology of Carbon</u> , Extended Abstracts and Programme, Eurocarbon Vol. II, Strasbourg, France, July 5-9, 1998.												
↓	IS	Klett, J., Walls, C., and Burchell, T. "High Thermal Conductivity Mesophase Pitch-Derived Carbon Foams: Effect of Precursor on Structure and Properties," <u>Carbon '99</u> , 24 <sup>th</sup> Biennial Conference on Carbon, July 11-16, 1999.												
↓	IT	Klett, J., "High Thermal Conductivity, Mesophase Pitch-Derived Graphitic Foams," <u>J. Composites in Mfg.</u> , 15:4, pp. 1-7.												
↓	IU	"POCO Graphite Foam Update 1," pages published in 9/1999 at the web site of Poco Graphite, Inc., of Decatur, Texas at the internet address poco.com/pocofoam/grafprod, as downloaded on January 21, 2000.												
Examiner: <u>Bernard</u>		Date Considered <u>9/29/03</u>												
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and <u>not</u> considered. Include copy of this form with next communication to applicant.														